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NOTICE OF ALLOWANCE AND FEE(S) DUE

46296 7590 01/04/2010
MARTIN & ASSOCIATES, LLC
P.O. BOX 548
CARTHAGE, MO 64836-0548

EXAMINER

LE, MICHAEL

ART UNIT PAPER NUMBER

2163

DATE MAILED: 01/04/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/733,752	12/11/2003	Eric Lawrence Barsness	ROC920030327US1	8404			
TITLE OF INVENTION; DATABASE RANGE CONSTRAINT THAT IS DYNAMICALLY LIMITED BY DATA IN THE DATABASE							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	or transmitting the 188 ig the Patent, advance of herwise in Block 1, by (orders and notification of r (a) specifying a new corres	naintenance fees wi pondence address;	ill be i and/or	nailed to the current (b) indicating a sepa	correspondence address a arate "FEE ADDRESS" fo
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							(Date)
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10/733,752 TITLE OF INVENTION	12/II/2003 I: DATABASE RANGE	CONSTRAINT THAT I	Eric Lawrence Barsness S DYNAMICALLY LIMIT	TED BY DATA IN		C920030327US1 DATABASE	8404
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	04/05/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
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CFR 1.363). Change of corresp Address form PTO/SI Fee Address ind PTO/SB/47; Rev 03-(Number is required.) ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no anane will be THE PATENT (print or typ data will appear on the p pT a substitute for filing an (B) RESIDENCE: (CITY	3 registered patent rely, e firm (having as a sgent) and the name meys or agents. If n printed. te) tent. If an assigne assignment.	members of uponam	er a 2	ocument has been filed fo
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	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademar.	ed from anyone other than t k Office.	ne applicant; a regis	tered a	ttorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
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MARTIN & ASS	SOCIATES, LLC	LE, MICHAEL			
P.O. BOX 548			ART UNIT	PAPER NUMBER	
CARTHAGE, MO 64836-0548			2163		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 978 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 978 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/733,752 BARSNESS ET AL. Notice of Allowability Examiner Art Unit MICHAEL LE 2163 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the Board decision rendered 9/11/2009. The allowed claim(s) is/are 1-29,32-38,41-43,46 and 47. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). T Examiner's Amendment/Comment Paper No./Mail Date 3/10/09 8. X Examiner's Statement of Reasons for Allowance 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

9. ☐ Other

/Michael Le/

Examiner, Art Unit 2163

Primary Examiner, Art Unit 2163

/Wilson Lee/

Application/Control Number: 10/733,752 Page 2

Art Unit: 2163

DETAILED ACTION

Allowance

- This office action is in response to the Board decision rendered 9/11/2009.
- Claims 1-29, 32-38, 41-43, 46, and 47 are allowed and renumbered 1-41.
- 3. The following is an examiner's statement of reasons for allowance:
- 4. The instant invention is directed to dynamically determining range constraints for a database table. The range constraints are determined based on the data already stored in the database. Based on the data, the range constraints are changed and set. The range constraints limit what data is permitted to be added to the database.
- The closest prior art are as follows:
- 6. Bakuya et al. (US Patent 5,680,614) discloses range constraints for a database including at least one limit and ensuring that only data that lies within the range is allowed entry into the database. Bakuya at Fig. 6; col. 9, lines 32-40.
- 7. Zuzarte (US Patent Pub 2003/0084025) discloses selecting a column or generating a virtual column and performing a statistical analysis on the particular column regarding information such as high and low values. The statistical information is then used to create constraints that reflect the statistical characteristics of the particular column. Zuzarte at para. 0020, lines 6-12.
- 8. Though the closest prior art discloses elements very close to that of the invention, as found by the Board, the disclose of the combination did not render the claims obvious. For at least these reasons, claims 1-29, 32-38, 41-43, 46, and 47 are allowed.

Art Unit: 2163

9. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Le whose telephone number is 571-272-7970. The

examiner can normally be reached on Mon-Thurs: 9:30am-6pm, Fri: 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

 $Application\ Information\ Retrieval\ (PAIR)\ system.\ Status\ information\ for\ published\ applications$

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR $\,$

 $system, see \ http://pair-direct.uspto.gov. \ Should \ you \ have \ questions \ on \ access \ to \ the \ Private \ PAIR$

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michael Le/ Examiner, Art Unit 2163 /Wilson Lee/ Primary Examiner, Art Unit 2163

12-22-09